```
From boatanchors@theporch.com  Mon Jun 10 10:13:06 1996
From: Dave Metz <metzd@cfw.com>
Subject: Re: *** Tube Liquidation at Quest Electronics *** Update
Message-ID: <9606100120.AA12918@milo.cfw.com>

PLEASE, NOT ME GUYS BUT THOUGHT THIS MIGHT BE INTERSTING TO SOMEONE WITH
LARGE INTEREST IN TUBES




>
>>
>>Here is the information on the Tube Liquidation at Quest Electronics
>in
>>Denver.
>>
>>
>>SALE OF MAIL-ORDER TUBE BUSINESS:
>>
>>Quest Electronics, Inc. in Denver has gone out of business.  A large
>>part of their business was mail-order tubes.  This portion of the
>>business will be sold THIS WEEK.
>>
>>There are about 37,700 Radio, Audio & Industrial on the shelves and
>>computer inventoried.  These tubes are mostly N.O.S. (New Old Stock)
>in
>>original boxes. The remainder are Pulls (used tubes that were removed
>>from equipment) that have been tested and reboxed.
>>
>>In addition, there are about 15,000 to 20,000 tubes, some new but,
>>mostly used that are also part of this sale.
>>
>>There is also a tube catalog mailing list of about 7,000 (plus) people
>>and businesses through out the country.
>>
>>All inventoried tubes are on a computer database which is run on a IBM
>>PC type computer.  This data base can also be used to generate a new
>>catalog.
>>
>>The price is $12,000.  That is less then .20 cents a tube.
>>
>>NOTE:  Because of time and space considerations, this sale will be
>>finalized by Thursday, June 13, 1996 at 12:00 noon Mountain time.
>>
>>If a lot buyer is not found by that time, the tubes will be sold to
>the
>>general public for $1.00 each or $75.00 per 100.
>>
```

>>If you are a dealer who wants to expand his inventory, or if you just
>>want to buy a 'ready-to-run' mail-order business, this is a once in a
>>life time opportunity.
>>
>>For information please call and leave us a message at 303-674-2241.
>>Or FAX us at 303-670-3015.
>>
>>The tubes will be swold on a "first come" basis.
>>
>>Thank you,
>>Bill
>>
>

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: "Dale A. Hagert" <daleh@skypoint.com>
Subject: 32V2
Message-ID: <1.5.4.32.19960610113501.0066b418@popmail.skypoint.net>

A few months ago, I purchased a Collins 32V2. At that time I posted a message looking for the two chrome trim strips. Todate, I have not found any worth purchasing. So I am still looking for them. Also, although I got the manual with the radio, the schematic had been removed. I purchased this from the original owner, and after looking for the past few months, he has not found the missing strips or schematic. If anyone could help me out, I would sure apprecicate it. The radio needs help, as it only is putting out about 5 watts, so I need the schematic to trouble shoot it. Also any hints as to other potential problems to be aware of would also be appreciated.

Thanks

Dale A. Hagert NM0H
3881 Serpentine Circle
Eagan, MN 55122
612-688-7155
Dale A. Hagert
3881 Serpentine Circle
Eagan, MN 55122-1638
Phone 612-688-7155
Ham Call NM0H

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996

From: Brien Pepperdine <pepperb@gov.on.ca>
Subject: 390A - bit weak below 8 mhz
Message-ID: <Pine.OSF.3.90.960610194040.20167A-100000@govonca2.gov.on.ca>

A Stewart-Warner 390A I had asked a fellow about a couple months back was finally released to the open market last weekend at a flea fest, so I took it home, but suitably warned by the owner (price reflective of that anyhow). It supposedly is a bit big and heavy for his aging bones, and without the manual we know is a bit hard to get he could not really get "into" it.

Anyhow, of course it is triple conversion from .5 - 8 megs, and he told me it was somewhat weak there. It was, and I did replace V202 and V207 (6C4, 5654) tubes (esp. since I have had so many bad and marginal 6C4 tubes in the HQ-170A). Even so it is fair maybe perhaps on 80m, but not much on 40 m CW (which is where I would be on 40 m).

Anything come to mind to anyone, or is it just basically about time that things were peaked for performance? I do have a couple manual copies here, but they are a bit obtuse sometimes with all the specing of the various military test eqt. to be hooked up. In fact, I find the manuals geared more toward a situation where there are spare modules at hand (test, replace if not to spec), rather than "if it is not the way you want it, here's what you should turn, adjust, etc.". Really not fix it manuals, more spec tables that one accepts/rejects parts against. Sorry if I offend, but so far that's what I get out of them. I want to align/peak toward performance improvement.

So if anyone has a couple ideas as to where to start to perk up 80 and 40 a bit (or perk up the triple conversion generally, since it is fine above 8 megs I think). Outside of replacing those two triple conversion tubes for the oscillator and mixer, anything else I can try (and return to 'before') I'd like to know. Is it time for a serious overall alignment? - I'd sort of hoped for now just to get the .5 - 8 triple conversion part a bit better. I do have a fairly good advisor, but he is a bit tied up now with his investments, so we cannot really get into anything until July, so if I can just get a bit of the way forward...

Just send me an eamail if you like pointing out any fast and dirty peaking adjustments I could sort of do by ear via a monitored signal. I can get into signal injection a bit later if I really want to get it to perfect.

Anyhow, thanks for any hints, or warnings as might be required.

Brien

Toronto

pepperb@gov.on.ca

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: 5 KW BROADCAST XMTR SOON AVAILABLE
Message-ID: <9606101830.aa25228@pcusa01.ecunet.org>

Is this the ultimate BA?

Anyone interested in a Harris 5 kW output broadcast transmitter? Model BC 5P2, in continuous use since about 1960, currently on the air. I've worked on it, it's in good condition. Being replaced this Summer with new stuff.

Occupies 3 bays of racks, about 7 ft long, about 4 ft deep. U remove & ship.

-John Sehring (06/10/96 3:36 pm MT @Baker, Montana) wb2eqg

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: k3drj@radix.net (Jim Harding)
Subject: A real "fire bottle" transmitter?
Message-ID: <199606092340.TAA29859@news1.radix.net>

While rummaging through the garage today I re-discovered an interesting
"boat anchor transmitter".
It's a U.S. NAVY Type 12-G-31 signal light. This is the one that's mounted
aboard ship to send visual morse code to other ships. A real line of site,
light wave band transmitter :-)
The "final" is a GE MAZDA, 115 V., 1000 Watt Airway Beacon.
Anyone know anyone that may be interested in collecting this type of Navy
memorabilia? Anyone have any idea of what this "transmitter" would fetch?
I saved this item from the scrap yard many years ago. In it's final days as
a transmitter, it was mounted on a forestry tower. I guess some of the
forest rangers used these to talk "tower to tower". I'd hate to think that
it was just used as a spot light :-(
73 - Jim - K3DRJ

--
Jim Harding
LaPlata, MD
k3drj@radix.net

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996

From: Harris Boldt Edelman <hbe@red-eft.la.ca.us>
Subject: Re: A real "fire bottle" transmitter?
Message-ID: <9606100107.AA05263@red-eft.la.ca.us>

>forest rangers used these to talk "tower to tower". I'd hate to think that
>it was just used as a spot light :-(

"The Longest Dah"?

-Harris. KB6OWB <hbe@red-eft.la.ca.us>

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: "Jim Berry" <basalop@eskimo.com>
Subject: Antennas for BA Transmitters Continued
Message-ID: <199606100347.UAA09826@mail.eskimo.com>

Hello BA Fans,

First I want to thank everyone who sent replies in ref to my delima. I really appreciate it.

As far as RF in the shack is concerned, I am not go to let it concern me unless I actually have a problem. I just assumed I would. I am a firm believer in good ground systems and my station right now is using 3 and 6 inch wide strap that routes outside to a typical 8ft long ground rod. Also have radials extending out from that rod. I have to admit that I do not have an antenna even up for for my WWII rig. So far I am loading it into a combination of various dummy loads. Why don't I get with it you ask? My radio room, a spare bedroom, also is home to my HF PacTOR MBO which runs 24 hours a day and scans 80 thru 20 meters.   It consists of a (yuk) rice box transceiver and a computer, and a Butternut mult-band vertical. The thought has crossed my mind more then once on getting out of the MBO business. Solve all my concerns but there are folks out there in their RV's and boats that depend on the thing.

I have been discussing the possibility, with my wife, of moving. I have great dreams of finding a place with room for my WWII rigs to be all set up and running. Put the ricebox and it's computer in another room, closet, or something away from my real radios. I vision a big 20 by 20 room, with hardwood floors, big bowl insulators, 1/4 inch copper tubing running across the ceiling (overhead) suspended from real standoff insulators.

My collection of rigs right now consists of my BC-375. I am looking for an ART-13, TCK, TCS etc. I know where there is a TCK right near me. Now if I can just get my mitts on it. I have found a Navy power supply and stand for the ART-13. I heard they did have them for use with the ART-13 when used for shore installations. If my info is correct, the Navy called the ART-13 an ATC and when it was part of the AC power supply and stand it was a TCZ. Someone might want to set me straight on this one. I used a TCS when I was a novice and just loved the thing. What is ironic is I know who has it but I have lost track of the fella. 5 years ago this fella told me I could have it any time I wanted it. Now I want it but can't find the fella but I am looking.

I have taken enough of the Groups disk space for now. I could rattle on forever about this stuff. Sure do want to get on the air and join the group.

73 Jim K7SLI
***
Jim Berry K7SLI. QTH: Marysville, Wa (Near Seattle)
Email: basalop@eskimo.com FAX: 360-659-1360
Ham Digital: K7SLI @ K7SLI.#NWWA.WA.USA.NA
***

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: "Gregory S. Raven" <gsraven@cris.com>
Subject: Re: ARC-5 antenna comments
Message-ID: <199606100113.VAA14607@darius.cris.com>

At 10:12 PM 6/8/96 -0700, Ray Mote, W6RIC wrote:

>"with an ARC-5 which was tuned and tracked into a resonant load"....
>
>1. The SCR-274-N, ATA/ARA, and AN/ARC-5 units were used with the fixed antenna on aircraft which usually consisted of a wire running from somewhere behind the cockpit to the top of the vertical stabilizer. Antenna length was determined by the space available, not frequency. Further, the units were required to operate on various frequencies from 3 to 9 Mc. The wire was typically at least 20 feet long, even on fighters. (The trailing wire antenna was used by the BC-375 liaison set, not the command sets.)
>
>2. I'm confused by the "resonant load" bit. How 'bout enlightening me as to how that fixed single wire could be "resonant" at all those frequencies? Have I missed something here?

The command set transmitter plate circuit is tracked with an open circuit on the antenna post. The tracking was done by adjusting for minimum plate current, which occurs at resonance of the plate circuit. The typical resonant circuit tracking scheme was used, i.e. adjust the inductance at the low end of the band and the capacitance at the high end. You iteratively tweak them until you have low plate current over the whole band. Thus the transmitters were tracked into a resonant load.

Now, when you connect the antenna you do not want any additional reactance reflected into the plate circuit, which would de-tune it. This means when you install it in the aircraft, you have to adjust the coupling between the plate and the link, which effectively sets the impedance transformation. Adjusting the roller inductor cancels the capacitive reactance of the short wire antenna.

The interesting thing about the command set is that you installed it and simply tuned the antenna circuit to resonance. You did NOT have to "dip the plate". The plate resonance was synchronized with the master oscillator by means of a very finely crafted drive mechanism, with provision for fine electrical tracking.

A short (with respect to a wavelength) antenna will be look like a capacitor in series with a small value resistor. I believe the phantom antenna used to test command sets was just that-- a small value power resistor in series with a capacitor.

>3. Nice analysis of the coupling scheme. Glad you were able (and
>willing) to take the time to do it and share the results. Wish more folks
>would do that!

Thanks ! Some time I will do a more detailed analysis. Right now I would just like to get a couple more ARC5/SCR274s on the air. It would be neat to look at the output of a properly tuned command set on a spectrum analyzer. Wonder how far down the harmonics really are ?

73 de Greg KF5N

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: jproc@worldlinx.com
Subject: RE: ARC-5 Receiver Tuning Knob?
Message-ID: <Chameleon.4.01.2.960609150550.jproc@>

>How does one mate a decent tuning knob to the recessed splined shaft of an
>ARC-5 receiver

John,

I have successfully adapted one of those plastic knobs that fits on a splined shaft potentiometer. It was realtively easy for me since I have a healthy junk box of knobs. You may have to shave down the outer part of the knob in order to make it fit the barrel in the ARC5 receiver.

I also remember someone on this list mentioning a vendor who services aircraft radios who might have authentic knobs. Anyone?

Regards,
~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Jerry Proc VE3FAB
E-mail: jproc@worldlinx.com
Radio Restoration Volunteer
HMCS Haida, Toronto Ontario
~~~~~~~~~~~~~~~~~~~~~~~~~~~~

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: Bob Moody <bmoody@e-tex.com>
Subject: ARC-5 Receiver Tuning Knob?
Message-ID: <m0uSq50-0003H5C@e-tex.com>

>
John wrote:

>I am sure that my question has a 50 year old answer, but just acquiring an
>interest in restoring one of these:
>
>
>How does one mate a decent tuning knob to the recessed splined shaft of an
>ARC-5 receiver (without mutilating the shaft)?   Any ideas on modifying a
>"nornal" knob or pointing to a source, if one exists, of an original tuning
>mechanism would be appreciated.
>
>Thanks,
>
>John Zitzelberger
>johnz@earthlink.net
>

JOHN:

Since I'm in the same boat (restoring a pair of ARC-5's), I would like to know too.

One method seems to be the use of plastic or rubber tubing to connect the splined   shaft to a piece of shaft stock which is then fastened into an appropriate knob of your choice.

My ARC-5's were purchased at the Dallas Sidewalk Sale 4 or 5 years ago with a knob of sorts. Just pulled it, and it actually has a splined adapter-to-3/16 shaft gizmo. Am I lucky or What?

Are there any local control boxes or plates that fasten to the front of the RCVR in place of the small plate with handle? Do we just brew up a plate with pot/ on-off switch/BFO switch? Where do we find the mating plug? Can't force myself to butcher this original plate! What's the rubrics here?

While "employed" by my uncle's yacht club in S.E. Asia 1969-71, I had the privilege of repairing and returning to service an ARC-5 XMTR aboard a C-117 Gooney Bird.
I seem to suffer from NEURON-DISCONNECT-SYNDROME though. Can't remember how the RCVR was tuned.

My R-27/ARC-5 has a sticker on the top which says, "NOTICE. Connected for low impedance output." Does this mean it will drive a small speaker?

73,
Bob K7iRK

(Jack. I'm really proud of myself! Got through that whole thing without mentioning --- ---, or ---- sales!)

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: "Jim Berry" <basalop@eskimo.com>
Subject: Re: ARC-5 Receiver Tuning Knob?
Message-ID: <199606092009.NAA23959@mail.eskimo.com>

> I am sure that my question has a 50 year old answer, but just acquiring an
> interest in restoring one of these:
>
>
> How does one mate a decent tuning knob to the recessed splined shaft of an
> ARC-5 receiver (without mutilating the shaft)? Any ideas on modifying a

> "nornal" knob or pointing to a source, if one exists, of an original tuning
> mechanism would be appreciated.

> johnz@earthlink.net
>

Hi John,

If I remember correctly, you can use the cap of a fuse holder assembly. Besides fitting a fuse, I think it snuggly fits the splined shaft of an ARC-5.

73 Jim

***

Jim Berry K7SLI. QTH: Marysville, Wa (Near Seattle)
Email: basalop@eskimo.com FAX: 360-659-1360
Ham Digital: K7SLI @ K7SLI.#NWWA.WA.USA.NA

***

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: Michael Neidich <neidich@hooked.net>
Subject: Re: ARC-5 Receiver Tuning Knob?
Message-ID: <31BB3E14.2A1C@hooked.net>

Another way is to use a short piece of copper tubing 1/4" OD and press it over the splined shaft. Put a knob on the tube and your done. The reason knobs were so scarce is that in the aircraft the receivers were tuned by a control unit above the pilots head, via a long spedo type cable. The radio op did not mess with it, so no knobs. He had his hands full of guns and the liaison rig (BC-375) and BC-348 receiver.

I am looking for a BC-347 transmitter for a B-17 Restoration project. If you have an extra one that is exc or new, let me know. The project is the 390th Memorial Museum foundation in Tucson's Pima Air Museum.

73,
K2ENN,
Mike

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: Michael Neidich <neidich@hooked.net>
Subject: Re: ARC-5 Receiver Tuning Knob?
Message-ID: <31BB41A7.1B68@hooked.net>

Bob Moody wrote:
>
> >
>   John wrote:
>
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> >interest in restoring one of these:
> >
> >
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> >ARC-5 receiver (without mutilating the shaft)?   Any ideas on modifying a
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> >
> >Thanks,
> >
> >John Zitzelberger
> >johnz@earthlink.net
> >
>   JOHN:
>
>   Since I'm in the same boat (restoring a pair of ARC-5's), I would like to
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>   One method seems to be the use of plastic or rubber tubing to connect the
> splined   shaft to a piece of shaft stock which is then fastened into an
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> the RCVR
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> with pot/
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> myself
>   to butcher this original plate! What's the rubrics here?
>
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> privilege   of repairing and returning to service an ARC-5 XMTR aboard a
> C-117 Gooney Bird.
>   I seem to suffer from NEURON-DISCONNECT-SYNDROME though. Can't remember
> how the
>   RCVR was tuned.

>
> My R-27/ARC-5 has a sticker on the top which says, "NOTICE. Connected
> for low
> impedance output." Does this mean it will drive a small speaker?
>
> 73,
> Bob K7iRK
>
> (Jack. I'm really proud of myself! Got through that whole thing without
> mentioning --- ---, or ---- sales!)

One nice way is to use a 1/4" od copper water tube for the knob shaft.
Most of us just make a plate of thin aluminum, mount the pot and switch
for BFO, and put mating female socket pins on the end of the wires and
push onto the pins. You can butcher an old unit for the socket pins.
I need a BC457 tx for a restoration of B-17 at the 390th Memorial Museum
in Pima AZ. If you have a clean or new one, let me know.
Best 73,
Mike
K2ENN/6

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: "Sandy, W5TVW" <70401.134@CompuServe.COM>
Subject: RE: ARC-5 Receiver Tuning Knob?
Message-ID: <960609225705_70401.134_IHD67-1@CompuServe.COM>

I was just about to suggest the SAME thing. The use of an old All
American 5
plastic cabinet radio splined knob. You will have to use one that has a "boss"
or
spigot that sticks out a bit and the outer part will have to be 'planed' down.
I remember
doing this to ALL my old ARC-5 receivers around 45 years ago! Only I didn't
have to
invade a junkbox. I just went to the parts store and looked thru their
'replacement
plastic knob' inventory! I would suggest you find someone who collects old
plastic
radios and has a knob junkbox as the best source. Amateurs tend to throw that
type of
knob away and keep the ones with set screws (or 'grub' screws, as the Brits
say!)
Another dodge back then was to buy a remote cable assembly, (the one that
looks like a speedometer cable and sheath) and cut the end off. The inner cable

stub was then 'built up' with a short piece of 1/4" copper tubing soldered to

the stub.
Back then the cables were free or next to free because no one wanted them! I never
liked this much because the home-made 'shaft' was always a bit springy. The slined
plastic knob trick was my favorite.

73,
Sandy, W5TVW
Boat Anchors collected, restored, modified, traded and used!

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: mirage!pamars@Simba.AGN.NET (P.A.Marshall)
Subject: Re: ARC-5 Receiver Tuning Knob?
Message-ID: <9606100125.AA01540@mirage>

Michael Neidich writes:

> Another way is to use a short piece of copper tubing 1/4" OD and press it
> over the splined shaft. Put a knob on the tube and your done. The

I have had good luck with 1/4" thinwall brass tubing, got a 6" length
from the hobby shop for a buck or so.

Al Marshall   "Real Radios Glow in the Dark"   almarshall@acm.org
1+219.665.5072   Mirage Computers, Inc.   pamars@mirage.angola.in.us

"The lyf so short, the craft so long to lerne." - Chaucer

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: "Christopher A. Bowne" <radiobwn@q.continuum.net>
Subject: RE: ARC-5 Receiver Tuning Knob?
Message-ID: <199606100314.XAA28038@q.continuum.net>

If you're lucky - there may be a nicely machined local tuning knob with the correct spline shaft, and a threaded collar that secures it to the front of the radio - right inside your command set receiver. At least two of the ARC-5 3-6 Mc sets I have come across have these threaded onto a storage stud on the inside of the top cover, along with a spare dial that can be put on the remote control box that the receiver is to be used with. The knob is knurled, with a large scredriver slot, apparently for local tuning, or tuning on a test bench. So look before you start stealing knobs off that AA5!

73, Chris Bowne, AJ1G
     Stonington, CT

radiobwn@q.coninuum.net

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: bowes@ibm.net
Subject: BC-191 Osc. Mod. Info Wanted
Message-ID: <9606102129.AA0039@slip166-72-127-101.il.us.ibm.net>

I am looking for information regarding a modification that was done commercially to the old BC-191 and BC-375 transmitters. This mod supposedly helped to stabilize the master oscillator by replacing the MO 211 (VT-4-C) with an 814. Does anybody have any idea what this entailed or how this might be done. The 814 has the same filament and plate voltages as the 211, but I presume that some sort of dropping resistor would have to be set up for the screen voltage.

KB8NDS

Tom

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: Andy Howard WA4KCY <102452.362@CompuServe.COM>
Subject: BC-611 Wanted
Message-ID: <960610031718_102452.362_DHT84-1@CompuServe.COM>

I am still looking for BC-611 WW2 Handy-Talkies and/or parts.
Thanks and Regards,

Andy, WA4KCY
AMI #9
wa4kcy@usa.net

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: "Gary H. Harmon, Jr." <gharmon@txdirect.net>
Subject: Central Electronics Parts
Message-ID: <199606110031.TAA16501@legend.txdirect.net>

The remaining inventory, parts/manuals/sheet metal from the Central Electronics business is in Louisana with a close personal friend and a fellow engineer of the original owner, Wes Schum. If you need something contact......

Dominic (Nick) Tusa
19 Augusta Drive
Covington, LA 70435

(504) 892-7348 voice
(504) 892-2075 24 fax

nicktusa@aol.com

Nick also has a small manufacturing capability..Broadcast band tx for antique radio collectors, CE modules and a broadband amp (8877 based) using the CE style output networks..The amp is still a prototype, but works well..

Happy hunting!

73, gary

```
===================================================================
<<<<<<<<<<<<<< TOO many projects, NOT enough time! >>>>>>>>>>>>>>>>

Gary H. Harmon, Jr., K5JWK  gharmon@txdirect.net
6302 Robin Forest      K5JWK@K3WGF.EL09TN.#SAT.TX.USA.NOAM
San Antonio, TX 78239           (210) 657-1549
```

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: "Ray L. Mote" <rmote@rain.org>
Subject: Command Set local tuning knobs
Message-ID: <Pine.SUN.3.93.960610121529.21335B-100000@coyote.rain.org>

There were actually two types of Command Set local tuning knobs. The more desirable knob consisted of a splined end with attached locking ring to mate with the front panel hardware, and a small crank-type knob on the end of the shaft. This was used (under different part numbers) on the SCR-274-N, ARA, and AN/ARC-5 receivers. The second knob was a "push-in" one-piece item of machined brass. It provided a minimal capability, as there was no way to attach it to the receiver, and without the crank handle it wasn't much fun to use. It did have a slot on the face which would allow use of a screwdriver, and the edge was knurled for easy gripping. This was the one usually found on the underside of the tube cover plate in the AN/ARC-5 receivers only.

There *was* a variant of the crank-type knob made after the war for the later VHF tunable receivers. The numbers 0 (red) and .1 thru .9 (black) were engraved on the edge of the knob, along with one "tick mark" between each pair of numbers. The metal disk which serves as the knob face was made thicker for just this purpose. The Aircraft Radio Corporation part number for this knob was 18802, compared to the 6743 part number for the older knob. A small metal clip goes over the locking nut, and holds an index mark out near the dial. So, in addition to the normal dial markings on the receiver, this knob provides the equivalent of a "logging dial". The clip can easily be pulled off if not desired. These knobs came in sealed packages carrying the designator "RS6625-577-4665-FARC", and dated 10/63. They work every bit as well as the originals, and a couple BAfolk like 'em even better than the original.

73.....Ray Mote, W6RIC <rmote@rain.org> Oxnard, CA

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: CONNECTORS
Message-ID: <9606101045.aa15153@pcusa01.ecunet.org>

Motorola used SO-239 & PL-259's on all their BA VHF *and* UHF (460 MHz) FM gear. They would never have used a connector that compromised performance.

-John Sehring (06/09/96 4:36 pm MT @Baker, Montana) wb2eqg

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: launerb@crl.com (William H. Launer)
Subject: Re: Connectors
Message-ID: <v01520d00ade1eb0932c2@[192.0.2.1]>

>Motorola used SO-239 & PL-259's on all their BA VHF *and* UHF (460 MHz) FM
>gear. They would never have used a connector that compromised performance.

The difference is that Motorola used quality connectors, with good dielectrics that had "known" characteristics - not like the "cheapies" on the market now!

73, Bill - wb0cld

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-l #279   qrp arci #3551

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: "Sandy, W5TVW" <70401.134@CompuServe.COM>
Subject: Re: CONNECTORS
Message-ID: <960610204506_70401.134_IHD116-2@CompuServe.COM>

There was a quote:
Motorola used SO-239 & PL-259's on all their BA VHF *and* UHF (460 MHz) FM gear. They would never have used a connector that compromised performance.

WRONG! Motorola like all the electronic manufacturers were out to make a profit.
They DID make some good gear and some 'flaky' stuff like nearly everyone else did. They had a very slick set of marketing schemes as well! Even Amphenol, who made the "premier" PL-259/SO-239 for a long time, didn't recommend the so called "UHF" connectors at UHF! The series is a SECOND RATE connector at VHF/UHF frequencies. Popularity made them use the connector. It is a connector that should never have been used abouve 300 Mhz and only sparingly at 150 Mhz. They are not 'constant-impedance' connectors.
The only "correct" connector to use with RG-8 type cables is the type "N".
Also a very good one (but expensive) is the type "C" connectors. Type "N" connectors are used into the upper UHF range very satisfactorily.

Don't assume Motorola is "correct" because they use the "UHF" series.
To do so is to swallow their sales hype. All the two-way outfits (Motorola, GE, etc.) were and probably still are in cut-throat competition with each other.

All the FAA installations (OMNI, TACAN, VORTAC) all use "N" connectors in their interconnecting harnesses and patch panels. They are "swept" afterward to detect any impedance anomalies. These installations are, except for maintenance, totally unattended and must be as close as possible to 100% reliable. The "two-way" companies WANT some of the repair business "pie", FAA would prefer if, once completed, an avionics NAVAID run forever with no attention.

73,
Sandy, W5TVW
Boat Anchors collected, restored, modified, traded and used!

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: Richard Post <POST@ouvaxa.cats.ohiou.edu>
Subject: Re:Crystal collecting
Message-ID: <A3312ZWINHU1XG*/R=OUVAXA/R=A1/U=POST/@MHS>

>Anyone got a good piece of gear/circuit diagram that
>would make a good crystal "test bench?" I have a modern
>digital receiver for checking calibration, but a bench
>oscillator would be handy to have. Usually I just put
>one of the rigs in the tune position.
>
>73,
>--Andy
>wallace@mc.com

Andy,

For checking activity, I just stick them in my Heath grid dip oscillator. (GD-1A I believe). Made up a little adapter to make it easier. The Heath circuit uses two terminals for the coils. The crystal sing nicely on frequency. Use your digital receiver or zero beat your sig generator (with freq counter attached) on a BA to determine freq. This is an old idea from an equally old QST Hints and Kinks.

Rich   <rpost1@ohiou.edu>

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: PGWH83A@prodigy.com (BOB   FRIESS)
Subject: Eimac 2-50 HV Rectifier
Message-ID: <199606092220.SAA21530@mime3.prodigy.com>

-- [From: Robert Friess * EMC.Ver #2.10P] --

I bought a pair of Eimac 2-50A rectifiers at the Foothill event on Saturday because they were pretty. I have since thought that maybe they could be put to some use. Does anyone out there have the specs for these little tubes. Filament voltage and currant and voltage and currant ratings are all I really need.

Thanks,
Bob, N6CM

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: Bill Strangfeld <bstrang@iac.net>
Subject: Erlanger hamfest report
Message-ID: <Pine.SUN.3.91.960610103030.397B-100000@wabash.iac.net>

The Erlanger, Kentucky hamfest is a nice quiet local gathering with mostly tailgaters and only a couple of dealers. It ended early on Sunday because of rain.

It's not where to find the transmitter or receiver that is your heart's desire but it's a fine place for odds and ends. Most prices were neighborly. One non-ham seller with items from an estate relied blindly on advice from someone who had overpriced them, so he didn't sell much. Some items seen (asking prices):

HQ-129, $85, rough
Drake TR-7 (not A), $700
Drake CC-1 converter cabinet, no convertors, ps, or calibrator, $50
two modified command transmitters on modified rack, $65
Clegg 99er six meter rig, no manual, lightly modified, $50

Stuff that followed me home:

Drake Q-X q-multiplier with manual, first one I've ever seen, $1
RCA TV sweep generator with manual, covers IF frequencies too, $1
Tapetone 6 meter converter, fifty cents
Surplus Schematic Handbook, fifty cents
Millen grid dip oscillator manual, free
RCA and Shure mikes, $20 for the pair
command set connector, $1

Also found a 12 volt 35 amp supply for a real friendly price after the rain started.

73,
Bill Strangfeld
bstrang@iac.net

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: dgnova <dgnova@mail.erols.com>
Subject: FS manuals
Message-ID: <199606101723.NAA28065@smtp2.erols.com>

I find that I have extra copies of the following manuals, and I am willing to part with them.

TM11-300 Frequency meter sets SCR-211-a,b,c and up to AL. This covers the BC-221. Good condition except small tear about 1 inch long on binder. $20 plus postage

TM11-522 Radio set an/arc-60
very small water damage. This unit transmits on 228 to 258 mhz and converts these signals down to range of R508 receiver. Has copy of R508/ARC receiver. This is the post war command receiver covering 118 to 148 mhz. $10 plus postage

Navy model RAO-6 preliminary instruction book. Has 56 pages including schematic. $18 plus postage

TM11-897 covering R-274/FRR
This is a photocopy, about 104 pages long. This appears to be a Hallicrafters SX-73. $15 plus postage

Shipping from Washington D.C area. Please contact me at my e-mail address at dgnova@erols.com
Phil W3SAK

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: "Lahlum-FLR111 Ross" <ross_lahlum@msmail.wes.mot.com>
Subject: FW: Simple BA Antenna for the BA 80M QRG
Message-ID: <9606101928.AA13097@kay.wes.mot.com>

Copper strap or braid will work a little better because it has lower self-inductance.

Ross
KB9JJR

Any reason why 1/4" copper tubing would work just as well as Sandy's copper strap or braid for grounding to the 8 foot ground rod? Any thoughts?

Lynn, N8AJ (planning to beef up the grounding situation in the BA Shack)

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: "Nagle, Timothy E   EA" <Nagle@PO3.EA.unisys.com>
Subject: Golden Eagle III sighted
Message-ID: <31BC9648@po5.cp.unisys.com>

While at a swap meet in Minneapolis, Mn this last Saturday, I spotted a Golden Eagle III SSB. I don't know anything about it but thought that someone here might be interested. The person who was selling it is: Merlon Smith at (218) 226-3467.

Tim
KB0QOM
nagle @po3.ea.unisys.com

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: WB2ODHJIM@aol.com
Subject: Hallicrafter SKY BUDDY 4-SALE/TRADE
Message-ID: <960609172033_131256814@emout19.mail.aol.com>

Still cleaning out, getting ready to move closer to the new job. In preparations I've been passing on many BA which I've acquired over the years. Although I hate to part with it my 1937 Hallicrafter SKY BUDDY receiver, Model S-19R is going to go. It is in good condition and has no rust and I have a copy of the manual. If any one is interested please make me an offer or --- TRADE --- (RF amp. and or RF deck, or transmit tubes and/or sockets e.g. 3CX-/4CX- series 8877, 8930, 4CX-250R 4CX-300, 4CX-350, 4CX-600/800/1000/1500,1600, 572B etc. Lets talk.

73
Jim
wb2odhjim@aol.com

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: HAMCOMM REPORT COMMENT
Message-ID: <9606101045.aa15114@pcusa01.ecunet.org>

> A lot of dealers are starting to buy up all the big variables and inductors, porcelin insulators, rotaries and such and then reselling them for a healthy markup. Maybe that activity is starting to take some of the fun out of hamfests.

IMHO, dealers are not consistent with my conception of the spirit of ham flea markets. Big profits are *not* the name of the game among BA hobbyists, I think. I always walk right by the dealers.

-John Sehring (06/09/96 2:26 pm MT @Baker, Montana) wb2eqg

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: radiorob@serix.com (Robert Ross)

Subject: HEATH Two'er Manual and Mic WANTED!!
Message-ID: <199606091821.SAA23697@cm.serix.com>

Hello Folks!!!

Yesterday at the Kitchener, Ont. Ham flea market...I picked up a real nice Heath Two'er.Price paid was $5.00!! It's in A-1 physical shape and when I plugged it in..it fired up just fine. However...I did not get a Manual with it...so I would like to purchase one if anyone can help. I would prefer an original manual....but will be happy with a photocopy...if that it all I can find!! I believe the Two'er also came with a microphone....and that was missing too....so does anyone have a spare Heathkit mic that came as standard equipment with this rig???? Please help me get this neat little rig on the air....I'd like to see if it will work across town on 2mtrs AM!!!
Please Email me direct if you can help. Thanks.
Does anyone have a 6'er or a 10'er they would part with to complete the set for me?????

73....ROB.

Robert S. Ross VA3SW
London,Ontario,CANADA

RADIO DXer
ANTIQUE RADIO ENTHUSIAST

................"Stuck in a time warp, and lost in the ozone again" !!!!!!

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: mflicinski@VNET.IBM.COM
Subject: Marauder Freq Shift Solved
Message-ID: <199606101430.JAA06325@uro.theporch.com>

I got off easy this time...

My first instinct was to replace the 6AU6 VFO tube and that's what it turned out to be. In qso's after tube replacement the transmitter stays on frequency the whole time. I'm monitoring with a modern receiver so I know any drift or shifting of frequency is in the Marauder. By the way, the Marauder appears to be quite stable very much in line with Heath's claim of the day.

Thanks to those who offered suggestions for a fix. Now to put it back in the cabinet... groan! It's heavy!

Mike K2UXE
Round Rock, TX
mflicinski@vnet.ibm.com

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: sinned@VNET.IBM.COM
Subject: Mother of all Antenna Tuners
Message-ID: <199606102048.PAA01775@uro.theporch.com>

Just got a 'CU-32/ART-13A' unit. It's huge, 22" wide by 12" square. It's not mentioned in the ART-13 maintainence manual. There's red printing on the front that says "DO NOT USE THIS FOR FREQUENCY BANDS BETWEEN 200KC and 600KC". Does anyone have any documentation on the application of this device? It would really look great in the shack.
Thanks,
Dennis KC5EPZ
sinned@vnet.ibm.com

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Movin' on.....
Message-ID: <9606102049.AA18368@syseng1.se.melpar.esys.com>

Boatanchorites & keyclickers,

Effective June 21st, I will be off the lists for a while (not sure how long). I'm moving to a new job (telecom hardware design with Pulsecom near Washington-Dulles airport, about half the commuting distance of my current job).

If anyone has any items of importance to e-mail my way, please do it before the 21st or you'll have to resort to snail-mail - or we can do a little QRQ HF CW, which I'd like better, anyway. :-)

It's been real, folks - and in the (paraphrased) words of Fagin (from the movie musical "Oliver"):

"Fare thee well, I'll be back soon;
fare thee well, somehow I'll miss ya."

73,

Paul, K4MSG

```
(|_|)  Paul H. Bock, Jr. K4MSG     Internet: pbock@melpar.esys.com
 | |)  Principal Systems Engineer  Telephone: (703) 560-5000 x2062

   "You can have my bug when you can pry my cold, dead fingers from
    around it....." - anonymous radiotelegraph operator
```

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: Bob Duckworth <rmd@ka4ybr.netmha.com>
Subject: Need HRO500 manual. Test equip BAs and BC603s for sale.
Message-ID: <199606110125.VAA04539@ka4ybr.netmha.com>

I know it's not tube but it's big and old.
Need a manual for this somewhat ratty HRO500 I picked
up at the Atlanta Hamfest. I'll pay for copy or maybe
can trade something.

Also picked up a couple of BC-603 receivers. somewhat ratty.
sell or trade for........

And last of all for the test equipment junkies.
I spotted the following on a pallet at the scrap dealers
while looking for stuff I can make a buck on (surplus electronic
stuff like IC sockets and connectors)

1) General Radio UNIT I-F Amplifier. no model. tube. no freq given.
   small. AVC and 0 - 70 db atten. meter reads in db. IF or mixer out
   switch for meter. coax in and banana jacks out.
2) Empire devices (singer) noise and field sensitivity meters.
   a)#105 with T-1 tuning unit (20-200MCs)
   b)#105 with T-3 tuning unit (400-1000MCs)
   These are in military green style cabinets. didn't see a mil number but
   it was kind of dark in the warehouse.
3) Fluke differential AC-DC voltmeter mdl 803B
4) Sierra wave analyzer mdl 121
5) Waterman PanelScope (really cute, looks like aircraft stuff)
6) HP202A

It's all as-is but none of it looks rough.
I'll be visiting again later this week so if anyone would
like to make an offer I'll pass it on.
Just figure that I'll have to pack and ship too so the cost of that
will be in addition to your offer.

-bob
WB4MNF

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: POOR MAN'S MULTICOUPLER
Message-ID: <9606101046.aa15147@pcusa01.ecunet.org>

> You can test it if you have
> an S-meter, since any output port should show 9 dB less signal (which is
> 18 dB less voltage as S-meters refer to micro Volts).

This is a common misconception. The fact is, a dB is a dB is a dB.

Decibels do *not* change as you go from voltage to power (or vice versa).
The way of calculating a dB *is* different for volts and for watts, but the end result is the same.

That's exactly why it's so useful: a dB always describes an equivalent effect.

 -John Sehring (06/09/96 2:18 pm MT @Baker, Montana) wb2eqg

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: CHARLES HETT <75066.3711@CompuServe.COM>
Subject: Propagation in the 30's and 40's
Message-ID: <960611014120_75066.3711_CHI44-2@CompuServe.COM>

Does anyone know what hf propagation was like in the 30's and 40's?

I'm especially interested in 1937 (the year Amelia Earhart disappeared) and then 1939 through 1945 (WWII).

I read about all the messages sent during the war and just wonder how things were.

Thanks.

Charlie k0thn 75066.3711@compuserve.com

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: R-366/TRR-5
Message-ID: <9606101045.aa15115@pcusa01.ecunet.org>

No RF stage(s) in the R-366?

-John Sehring (06/09/96 4:35 pm MT @Baker, Montana) wb2eqg

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: "B. D. Hall" <BDHall@ghgcorp.com>
Subject: Re: R-366/TRR-5
Message-ID: <31BC5C3F.29E1@ghgcorp.com>

JOHN_SEHRING.parti@ecunet.org wrote:

> No RF stage(s) in the R-366?

Hi John, it has two RF stages, did I leave them out of my post? (I don' have the original, I am at work) Both are 6BA6's I beleive... I'll check from home on the original message...

Thanks and 73,
Ben
---
BDHall@ghgcorp.com

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: John Shriver <jas@shiva.com>
Subject: Re: Ranger 1 &2 modulator tube differences? (6L6 & 7027A)
Message-ID: <199606101431.KAA02694@shiva-dev.shiva.com>

The 7027A was RCA's response to GE's 6L6GC tube. The 6L6GC was a greatly improved 6L6 family tube, with a 25% uplift in plate dissipation. Used GE's multi-layer plate material (which was made by Texas Instruments).

RCA, for competitive reasons, tried to get people to design in it's new 7027A instead. (They made the money on the replacement tubes!) However, they weren't all that successful, and relented and started making 6L6GC's. The internals of the RCA 7027A and 6L6GC are identical.

Bringing out two pins on the control grid does make the 7027A a subtly better tube. This cools the control grid better, making it less likely to run into grid emission.

Indeed, the Sovtek 5881 tube appears to have much better plate dissipation than a 5881 or 6L6, and be pretty damn close to a 6L6GC.

One of the quality Russian tubes.

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: S-36A Rides Again
Message-ID: <UPMAIL03.199606092224330414@msn.com>

Gang, The ongoing saga of the S-36A.
Well this morning, I got up and started to look over this 72 LB beast.
every time I turn it over, some kind of part fallls out.Gets me worried
alittle.
Unit plays great on FM Broadcast, but weak every where else.
Pulled the first 956 Triode tube, which in this unit is for radio suppresion,
and
low and behold I dropped it to the concrete. Bang, No tube, Crapp what to do,
couldn't find my Fair Catolog and bit the bullet and went down to the local
radio sell you what, and got 1 for 16 Bucks, Damm things cost 49CTS in 1945.
Radio is great looking, except for all the smoke stains on the panel.
Geez, I smoke, but Ive never had the accumulation this guy has.

I wished the liitle guy made it up to 146 MC, but what the hell, it would be
more valuable that way,

More to come.
Al
fritsche@msn.com

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: "David L. Thompson" <thompson@mindspring.com>
Subject: Short Atlanta Report
Message-ID: <199606100412.AAA12143@borg.mindspring.com>

Saturday was the time to find BA's. Saw 2 75A1's, NC-98 ($75), SP-600
(sold), HQ140 (sold), HQ129X, Elmac AF68/PMR8, several Rangers (W4UOC near
one), GSB-100 for $75..told Greg KX4R about it but was gone by then, A Drake
R7A ($475), a number of Radio Shack, Lafayette (one that looks like a cheap
SX-62), and several Skyriders. One guy in the boneyard had several T-O's
and antique radios, and one inside with an SW-3 ($25) on the floor and a
1928 receiver. He also had many old mics including one with WOR/mutual on
it.   Did not see much Drake equipment, but there was a clean Hallicrafters
XMTR that matches the SX-117 ($150 sold by 1PM).

Added an B&W 5100B to my B&W collection and its on CW already. Gotta find
the two pin mic connector for my Shure to test out AM. Saw a number of

D-104's, but they were gone by Sunday when I had time to buy.

Biggest laugh was the Morrow Conerad Monitor (Its just an AM band receiver) for $100. They guy said it was unique! Still there at 2Pm on Sunday, but without the price tag!

Sunday there was a radio Shack DX-150 slightly rough in the boneyard for $35 and a guy with a carload of W4GD (that GOOOOOLLLLLF DDDELLTA for you guys who remember him) big single band amps (4-1000) for $750 each (marked down from something). I found a Babcock MT-5B AM/CW mobile transmitter in the covered area (found an ad in March 1955 QST page 145). 6146 Final,(Marty things it needs a carbon mic). He was asking $65 and I tool it home for much less. It is only 5" x 8" x 7" with same case material as the Elmac A54H. We took off the cover and the wiring seems clean.. The guy said it was used until stored 20 years ago in an upstairs closet. Case is scraped, but looks good before clean up. Looks like it runs on 12 volts rather than an AC supply like Palco or Elmac. I am looking for manual/schematic and will pay to get or to copy (did not see it on the several manual lists). Any history anyone has is also appreciated.

I am tired but Marty (El supremo) must be bushed...great job...maybe next year we can get to a date not to compete with Raleigh and Hamcomm!

Dave K4JRB

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: lstolz@tekelec.com (Lynn Stolz)
Subject: Re: Simple BA Antenna for the BA 80M QRG
Message-ID: <9606101843.AA05903@london.oh.tekelec.com>

Any reason why 1/4" copper tubing would work just as well as Sandy's copper strap or braid for grounding to the 8 foot ground rod? Any thoughts?

Lynn, N8AJ (planning to beef up the grounding situation in the BA Shack)

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: "Sandy, W5TVW" <70401.134@CompuServe.COM>
Subject: Re: Simple BA Antenna for the BA 80M QRG
Message-ID: <960610213946_70401.134_IHD66-3@CompuServe.COM>

Lynn,

The strap is actually a bit easier to use. 1/4" tubing would be good, but marginal.

Another dodge that has been used is old coaxial cable, RG-8/U that is old and has "lossy" characteristics. As long as the braid is sound and not badly tarnished or corroded! Simply strip back a few inches or the jacket and center insulation and tie them together. You are looking for as much surface area as possible. 3/4" or 1" copper tubing run like water pipe (with soldered fittings) or the soft flexible stuff would be OK. Round conductors are actually better than 'flat' ones really (theoretically), what you want is SURFACE area. RF concentrates near the surface and solid conductors are not necessary! I would use something with as much surface area as possible concurrent with ease in installation. You may think about tubing and 3" flashing strap. Use the strap for under the window entry, or slipped thru a slot or crack. Generally, it's easier to drill a round hole thru a concrete or brick wall than make a 'slot' in an existing structure. You can always transition to strap from tubing. The strap is easier to handle and hide inside a house. 3/4"-1" copper tube will give about the same effectiveness as 2-3" strap. Just remember to bend the tubing in long radius bends. Don't "kink" the tubing as it will lose some of its effectiveness at the "kink". Normal copper "ells" are OK if you use rigid tubing. Always SOLDER all joints and connections! DON'T rely on clamps and mechanical connections on copper exposed to the weather! You may get by with it for a while, but eventually mechanical connections will cause trouble and grief. Sooner or later all mechanical connections exposed to weather WILL FAIL.

Terman's "Radio Engineer's Handbook" and Henney's "Radio Engineering Handbook" both have some discussions on conductors and "skin effect" at high frequencies. The rest is "on the job experience" over the years, or what's called "the school of hard knocks!"

73,
Sandy, W5TVW
Boat Anchors collected, restored, modified, traded and used!

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996

From: Spencer Petri <spetri@e-tex.com>
Subject: Re: SP 600 tuning lock knob.
Message-ID: <m0uSw9O-0003HvC@e-tex.com>

Checked my tuning lock and it locks the tuning! The tuning knob continues to turn but nothing happens electrically and the dial plate doesn't turn.

73 de Pete WA5JCI

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: jcall@sirius.com (Jim Carrington)
Subject: Re: SP-600-JX-17: do you have a tuning lock or IF Gain control?
Message-ID: <199606092114.OAA09298@terra.sirius.com>

>>Here is a question for all you SP-600-JX-17 types out there.
>>
>>Instead of a tuning lock, mine has a pot in it's place. Glued on top of
>>the words "TUNING LOCK" was (it fell off in shipping) a little plate
>>that looks as if it could be original that says "IF GAIN." The wiring
>>for this pot goes through the factory harness, so I think it came this
>>way from the factory.
>>
>>Anyone else have one like this? Any ideas as to it's purpose?
>snip
>

Ben, your message prompted me to take a close look at my JX-17 and sure enough , it says Tuning Lock. On closer examination , I can see a square border surrounding the Tuning Lock label apparently made by a label glued over it which must have fallen off. My tuning lock also feels like a pot and doesnt lock the tuning one little bit.

Jim Carrington

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: Charles Mann <mannc@idirect.com>
Subject: SWL radio survey
Message-ID: <199606102025.QAA18723@lucid.idirect.com>

Hi gang, well I guess that peoples preferences for radios are as diversified as car models and brands!

My thanks to everyone who responded, FYI here are the results of the voting:

R390A......2
HQ-180.....3

51S1.......2
Someone also suggested a TMC GPR-90.

Maybe a new super-cool solid state, like the JRC or Drake should be looked at. Oops................................

Charles.

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: don merz <71333.144@CompuServe.COM>
Subject: SX-42 For Trade
Message-ID: <960610154108_71333.144_DHB74-1@CompuServe.COM>

Hallicrafters SX-42 for trade. This is a nice radio. It has some few blemishes on the cabinet but the front panel is excellent in every detail. Working reasonably well but not perfect. It drifts too much to be much fun on sideband. But AM, FM and CW work well enough for casual use. I have not checked caps or voltages but I'd expect that it would benefit greatly from some attention under the chassis. Great sounding radio! One or two caps replaced but otherwise all original. No modifications of any kind that I'm aware of.

Trades wanted: Navy RAL or RBB radio with power supply and cable, Hammarlund SP-200 with power supply and cable, Hallicrafters T-54 TV set or National TV in metal cabinet, military BC-652/653 (SCR-506) tank radio set, or what have you. I will sell the radio at a later time if no interesting trades show up.

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.
412-234-8819 (weekdays, EST or leave a message anytime).
71333.144@compuserve.com

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: don merz <71333.144@CompuServe.COM>
Subject: SX96, R-46B, etc FS
Message-ID: <960609212248_71333.144_DHB50-1@CompuServe.COM>

For Sale

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.
412-234-8819 (weekdays, EST or leave a message anytime).
71333.144@compuserve.com

Hallicrafters R46B speaker. This one matches the SX-85. 96. 99 and others, I think. 3.2 ohms. Black grille cloth, silver "h" logo and gray cabinet. All original. This one is scratched on top but the front looks very good or excellent. Overall very good condition. $49. I will not sell this until I see if the buyer of the SX-96 (below) wants it.

Hallicrafters SX-96 receiver. 1956, 12 tubes, double conversion. I think this was Hallicrafters first real sideband radio. Has some scratches and samll chip on side of tuning knob. But it really looks great overall. All original including paint and knobs. Works fine except bandspread flywheel is not on it's shaft right. So you can use the bandspread but it binds and acts (literally) eccentric. $129

Hickok 605A mutual conductance tube tester and analyzer. Looks like a small form-factor version of the 533. A casual perusal of the roll chart shows the same settings as the 533 on the ones I looked at. The analyzer section has the functions of a VTVM and cap checker. Classy burnt orange letherette. The tube tester works fine. I didn't check the VTVM functions but I think the whole thing works as designed. With original manual. Panel will need some cleaning. $59

Electro-voice 636 "Slimair" dynamic mic. Classy stainless steel with cable. $44

Electro-voice 664 dynamic mic disguied as an Executone EXCC mic. This is the 664 with the brown body, gold windscreen and gold connectors. With cable. $54

Simpson 351 "TV Antenna Compass" television field strength meter. Compact unit runs on 110vac and connects to TV video output. Looks to be late-40's or rarly 50's vintage. In original box with original instruction sheet. $11

Military OS-8/E oscilloscope. Same one that Fair Radio has had for years. Military equivalent of Hickok 380A, I think. With case and cord. Unworking (blows fuse--didn't investigate). $12. Fair has the manual for this.

Literature

ARRL Specialized Communication Techniques, 1977. Excellent. $8 PPD
ARRL 200 Meters and Down. 1981 reprint. Excellent. $8 PPD
73 Magazine DX Handbook, 1968. With DX Zones of the World Wall Map. $11 PPD
QST 1972, complete: $12

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: "James C. Garland" <garland@MPS.OHIO-STATE.EDU>
Subject: Re: The dB dBate: my 2 cents worth
Message-ID: <01I5QXYDFVV88WW2T6@MPS.OHIO-STATE.EDU>

At the risk of confusing matters further: It's useful to keep in mind that decibels (dB) always refers to a power ratio. One would never refer to, e.g., a 10dB voltage ratio.

That said, power can be expressed many ways, some of which include watts, horsepower, BTUs/sec, ergs/sec, newton-meters/sec, volts^2/ohm, volt-amperes, etc. One can always make an algebraic substitution into the formula dB=10*log(P1/P2), by writing P1 and P2 in terms of other variables, most notably P1=V1^2/R. In case of such a substitution, the dB formula can be written in terms of the other variables (e.g., dB=20log(V1/V2)), but it still represents a power ratio. dB=power ratio. Never forget it. No exceptions.

Jim W8ZR

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: The dB in re: POOR MAN'S MULTICOUPLER, et a
Message-ID: <9606101818.AA14632@syseng1.se.melpar.esys.com>

>On Mon, 10 Jun 1996 JOHN_SEHRING.parti@ecunet.org wrote:
>> Decibels do *not* change as you go from voltage to power (or vice versa).
>> The way of calculating a dB *is* different for volts and for watts [...]

>   This probably merits a quick example. Let us say our BA rig--maybe a
>pair of 807s--is measured with a Bird wattmeter as humming along happily
>at 100W into a 50R load. Being of an investigative mind, we stick an H/P
>400H VTVM across the line, and see 70.7V (E being the square root of the
>product of P and R).
> Alas, it is wiping out the TV set; so we cut the power in half, and at
>50W, the VTVM shows 50V across the load. The TV seems little happier.
>   "Gee, that ain't half the volts," we sez. "Izzit 3dB down?"

Try a couple of easy-to-remember rules of thumb:

1. Halving or doubling the power is a 3 dB difference: -3 dB in the former, + 3 dB in the latter.

2. Halving or doubling the voltage (or current) is a 6 dB difference, because power is proportional to voltage or current *squared* (P=E sq/R, P = I sq x R). Squaring something which is doubled (or halved) is a factor of 4 (or 1/4) and 10 log 4 (or 10 log 1/4) is equal to 6 (or -6), i.e. 6 or -6 dB.

Then again, maybe this is even more confusing.....

73,

Paul, K4MSG

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: The dB in re: POOR MAN'S MULTICOUPLER, et alii
Message-ID: <Pine.SUN.3.91.960610121348.709A-100000@indy2>

Hi!

On Mon, 10 Jun 1996 JOHN_SEHRING.parti@ecunet.org wrote:

> Decibels do *not* change as you go from voltage to power (or vice versa).
> The way of calculating a dB *is* different for volts and for watts [...]

This probably merits a quick example. Let us say our BA rig--maybe a pair of 807s--is measured with a Bird wattmeter as humming along happily at 100W into a 50R load. Being of an investigative mind, we stick an H/P 400H VTVM across the line, and see 70.7V (E being the square root of the product of P and R).

Alas, it is wiping out the TV set; so we cut the power in half, and at 50W, the VTVM shows 50V across the load. The TV seems little happier.

"Gee, that ain't half the volts," we sez. "Izzit 3dB down?"

In power, we figure dB by ten times the log of the ratio of the two powers: 10 * log 2, or just about 3dB.

Dealing with voltage, it's 20 times the log of the *voltage* ratio: 10 * log (70.7/50); lo and behold, that too is 3 dB on most slide rules.

Why 20X voltage, and only 10X power? It's a trick! If P=E squared over R (and it does), then P is proportional to E squared; if you multiply the log of a number by 2, it's the same as squaring the number [see below], and that's where the "2" in the "20" comes from. The "10" in power and "10 * 2" in volts (amps, too, which otta be fair obvious if P=I squared times R) is another story. To make the unit named after A. G. Bell easier to monkey with, we shoved the decimal over, making 'em tenths of a Bel, or deciBels, and there ya have it: the "10" is doing that conversion!

73,
--Bobbi

(They rate TV transmitters in dBk, decibels relative to a kiloWatt; you surely didn't think I learned this for the sheer joy of it?)

[Here's the "see below:" if it's been awhile since you messed with slide rule (which adds logs of numbers to do multiplication), this may not make sense; try it on a calculator by taking the log of 5 (.699 but don't my word for it), multiplying by two, and then taking the "antilog"

(raise 10 to the power of the number) of it--you'll get 25, close
enough. For a better result, run the log out to more places. Handy
trick!]

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: Mikhael Brown <mikhael@hpcmmp13.sj.hp.com>
Subject: Tunable Indicator Amp Info
Message-ID: <199606101339.AA076453991@hpcmmp13.sj.hp.com>

I just got a "Tunable Indicator Amplifier" made by Hohde and Schwarz.
This is a type UBM. It looks like a VLF receiver and tunes from 45 cps
to 600 Kcps. The controls are labelled in both German and English.
It uses EF-80 tubes and one 150 CP type.

Does anyone have any information on this unit?

73

Mike N6WIG

--
mikhael@hpcmmp13.sj.hp.com

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: John Kolb <jlkolb@cts.com>
Subject: Re: Tunable Indicator Amp Info
Message-ID: <Pine.SCO.3.91.960610082300.20790B-100000@sd.cts.com>

On Mon, 10 Jun 1996, Mikhael Brown wrote:

>   I just got a "Tunable Indicator Amplifier" made by Hohde and Schwarz.
> Does anyone have any information on this unit?

I assume that's Rohde, not Hohde.

Sounds like a frequency selective voltmeter. A FSV is basicly a
receiver with calibrated meter and attenuators so that it can measure
signal level present at a particular frequency. One of the controls
available would normally be a bandwidth control to control the
bandwidth of the measurements. Typically it's used as a manually
tuned spectrum analyzer. You can tune to the fundamental freq
of a signal, measure it's level, and tune to each of the hormonics
and measure it's signal level independently. Rycom FSV's have been

popular with the lowfer crowd for quite a while as VLF receivers.

John Kolb KK6IL jlkolb@cts.com

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: Henry van Cleef <vancleef@bga.com>
Subject: Re: Tunable Indicator Amp Info
Message-ID: <199606101638.LAA02609@zoom.bga.com>

As Mikhael Brown said
>
>   I just got a "Tunable Indicator Amplifier" made by Hohde and Schwarz.
> This is a type UBM. It looks like a VLF receiver and tunes from 45 cps
> to 600 Kcps. The controls are labelled in both German and English.
> It uses EF-80 tubes and one 150 CP type.
>
> Does anyone have any information on this unit?
>

Don't have any information. However, the manufacturer's name would be
"Rohde and Schwarz."

--
****
Hank van Cleef vancleef@bga.com vancleef@tmn.com
****

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: Bob Moody <bmoody@e-tex.com>
Subject: VARIABLE TRANSFORMERS
Message-ID: <m0uSrIJ-0002oBC@e-tex.com>

Gang:

I still have 2 ea. variable transformers left.

They are rated at 120 volts in (60~) and 0-140 volts out
at 7.5 amps.

These are perfect for letting out BA smoke slowly!

Prefer to trade for ARC-5 stuff, or offers?

Bob   K7iRK

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: azoth@netcom.com (Az0th)
Subject: WRL VFO
Message-ID: <199606101451.KAA17262@netcom6.netcom.com>

Hiyall,

I just bought an ancient WRL VFO that I hope to use with my Deluxe Chief. It's supposed to be in rough shape, and probably doesn't work, and has no papers. If it has a model number, we don't know what it is. The Chief takes 80M input on 80, and 40M input on 40 and above, so I'm hoping they're at least slightly compatible. A question or three:

How many different VFO's did WRL make?

If several, how do they differ?

Is anybody here using one?

73 de KF4FJH - RF Buchanan (azoth@netcom.com)

From boatanchors@theporch.com Mon Jun 10 10:13:06 1996
From: Michael Neidich <neidich@hooked.net>
Subject: WTB: BC-457 Command TX
Message-ID: <31BB4B93.252F@hooked.net>

Working on restoration project for B-17 and need very clean or new 457 transmitter for the shack. All leads followed. Thanks in advance.
Mike
(for 390th Memorial Museum / "I'll Be Around" at Pima Museum, Tucson, AZ)

From boatanchors@theporch.com Mon Jun 10 20:51:06 1996
From: RWAYNE@CTC.Net
Subject: WTD:Info on National 6N2 VFO
Message-ID: <01I5QX8RZH4291WEO8@InfoAve.Net>

I would like to purchase a manual or manual copy for the National 6N2 VFO.

Thanks for your help.

73,
Richard   W4CBG
rwayne@ctc.net